

CHROMALOX

Electric

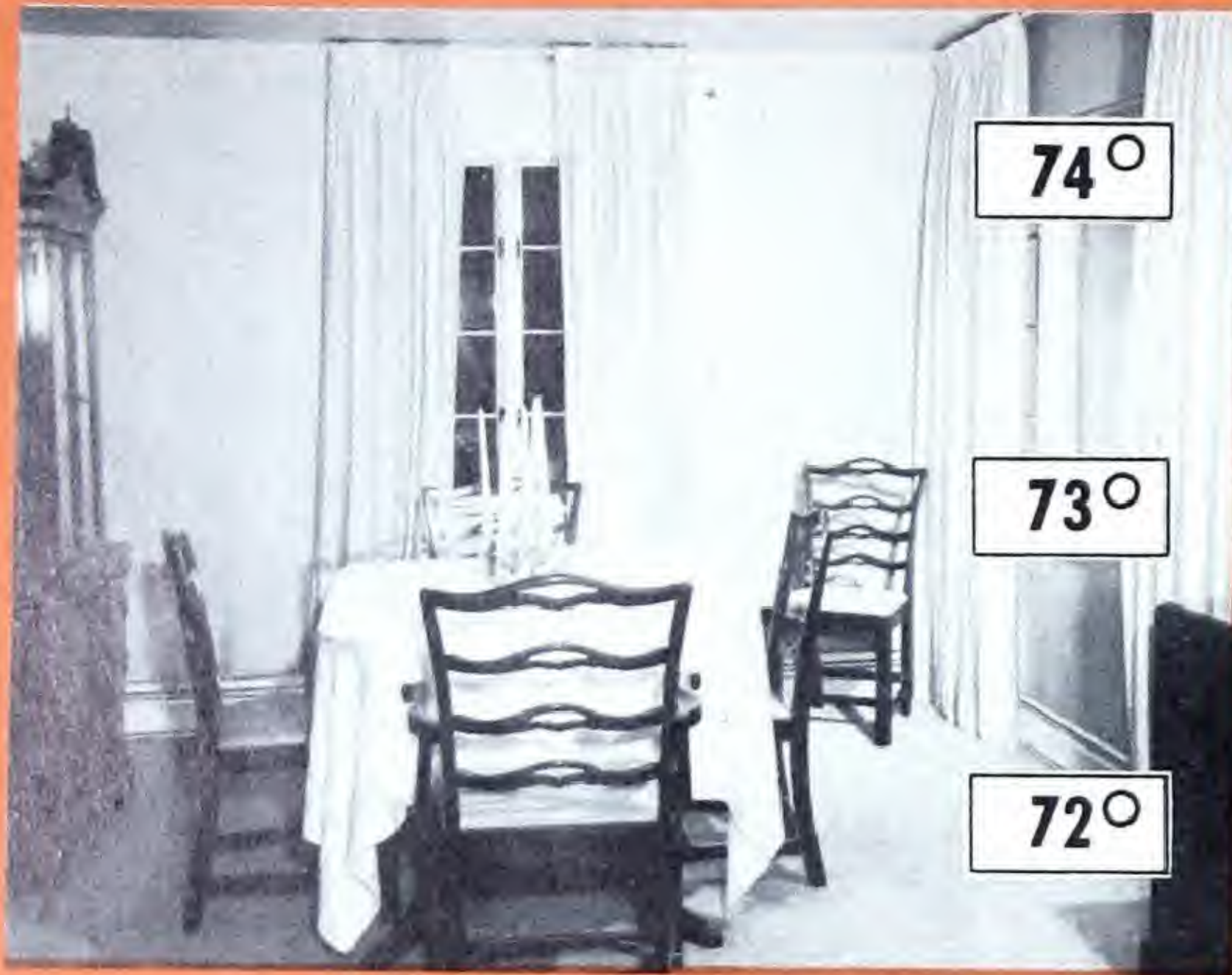
BASEBOARD HEATERS

- for modern heating comfort in every room
- installed wherever you need heat
- clean radiant and convected heat
- controlled heat



Why CHROMALOX Electric Baseboard Heaters

You get all the proved advantages of modern baseboard heating . . .



Radiant and convected heat

With Chromalox Electric Baseboard Heaters you'll enjoy the full comfort and efficiency of heat that is remarkably *uniform throughout the room*. Approximately one-half of the heat is radiant, one-half convected gently upward . . . resulting in the slightest temperature variations from floor to ceiling. In practically all homes the heating requirements are fully met by installing baseboard heaters along *outside walls only* — for true "perimeter heating."



Counteracts down drafts

Everybody loves a broad picture window — and the problem of heating that large expanse of cold wall is solved by installing Chromalox Electric Baseboard Heaters *beneath* the window area. With two-stage thermostatic control these versatile heaters below large windows can be wired to come on first and go off last — supplying heat where and when it's needed most. Baseboard heaters put the heat where the heat losses take place — at the cold outside walls.



Even heat at floor level

Placing the heat source along the outside perimeter of your rooms assures a steady radiation of clean heat at floor level. Warm floors eliminate the "cold feet" complaints of adults . . . and children can play on the floors in thorough comfort. Baseboard heaters put the heat where it's needed.

Freedom of room design

With Chromalox Baseboard Heaters along your outer walls and *out of your way*, you can arrange your furniture in any grouping. You can add new pieces or rearrange units and rugs at will — there are no heating obstacles to contend with! Drapes may hang in front of Baseboard Heaters, but 1½ inches clearance above floor is needed for proper circulation.



Noiseless operation

You can say goodbye to noisy blowers, whirring motors, or clanging radiators when you put Chromalox Electric Baseboard Heaters to work for you! And with your *electrical* heating system, there are no sooty filters to replace . . . no motor maintenance expenses . . . no leaky pipes . . . no flues to clean. It's modern!



Floor space entirely usable

The full beauty and style of modern wall-to-wall carpeting is yours to enjoy and admire when you install Chromalox Electric Baseboard Heaters. The nuisances of hot air registers, cold air return openings and bulky hot water radiators are eliminated. With no cut-out areas required, you can move your rugs around for even-wear purposes.



are best for your home—
plus clean electric heat . . .

..Precisely controlled

Flameless, electric heat means a cleaner, more healthful home

With clean electric heat at your service, you eliminate gas, oil, or coal flames in your home. No flame means no combustion by-products — no need for chimneys or heating equipment rooms.

Naturally, the absence of smoke and fumes results in cleaner, more healthful air in your home.

And think of the savings in housework! Rugs, floors, and walls stay clean longer. Curtains require less laundering, drapes and upholstered furniture retain that new look — require fewer cleanings. No streaks on walls.

Paint to match decor of room

Specially processed bonderized finish will bond paint tightly. No primer is required. These Baseboard Heaters blend with the side wall to become practically a part of it.



Select the temperature you want in any room

No other heat source can match the precision control of electricity! Consequently, with your Chromalox Electric Baseboard Heater you can select the exact temperature you want in any particular room — merely by adjusting the handy wall thermostat in that room. Living rooms can be one temperature, bedrooms another — whatever you choose! There's heating economy and living comfort in this flexible temperature selection.

SAFE, DEPENDABLE OPERATION WITH CHROMALOX HEATING UNITS



CHROMALOX electric heating element proved in service

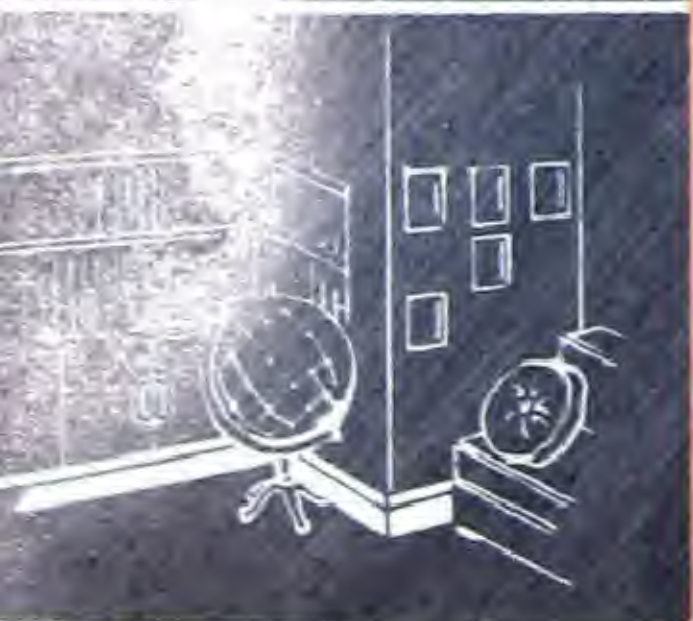
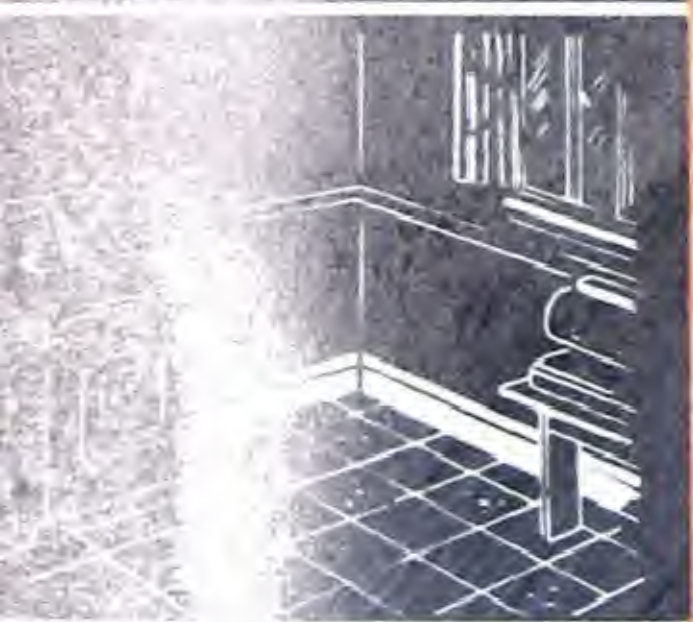
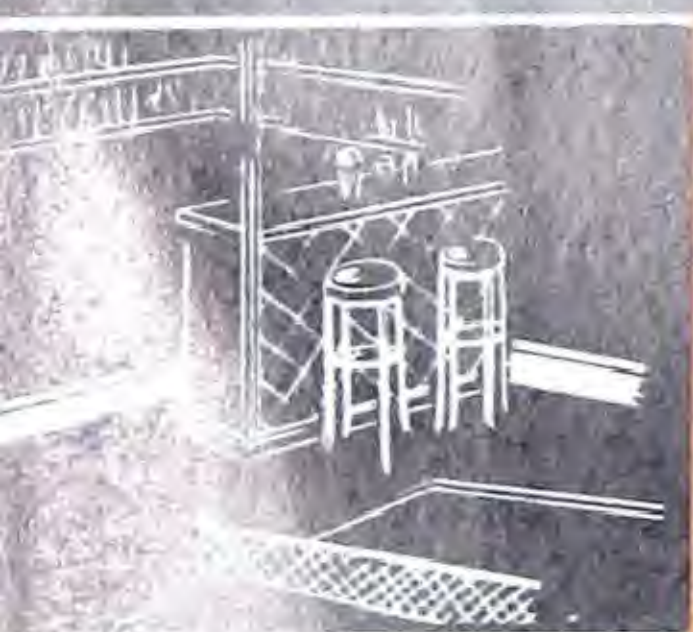
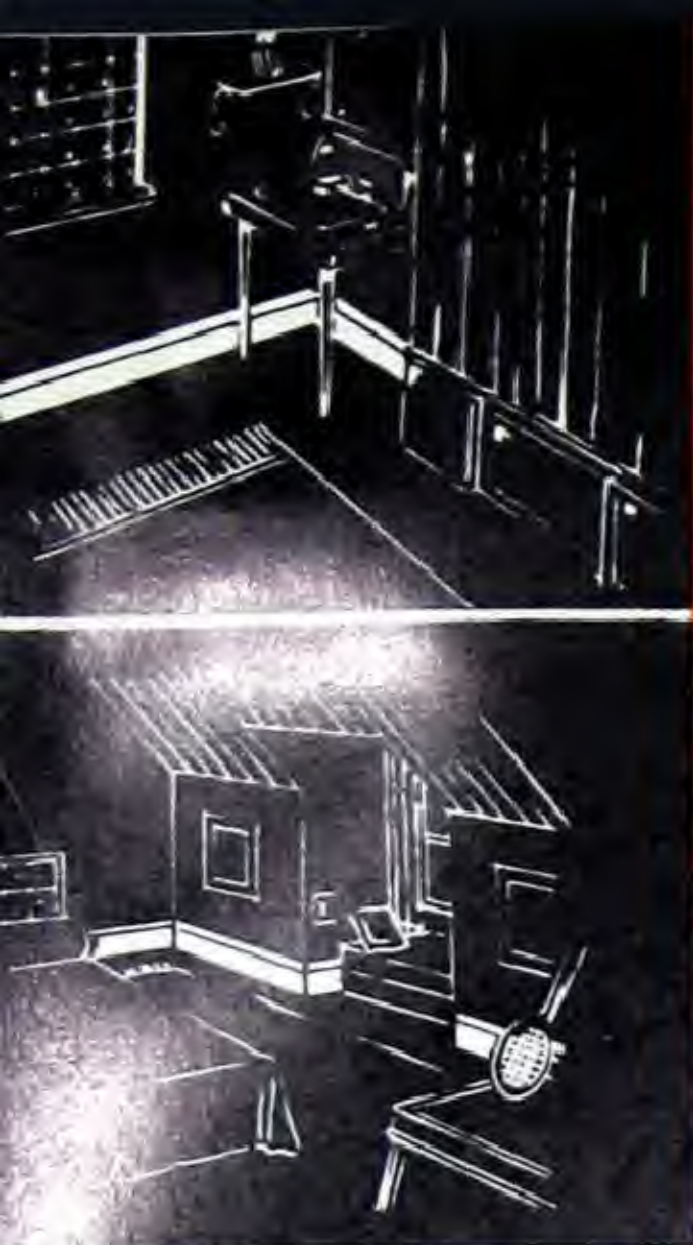
Reliable

The reliable Chromalox Strip Heater is the heart of every Chromalox Electric Baseboard Heater. This metal-sheathed unit has been proved *on the job* in industrial service for 35 years, and is now put to use in heating America's homes for years of dependable carefree service. No exposed wires to sag and fail.

Safe

Designed to meet temperature and electrical requirements of Underwriters Laboratories. UL approved. Chromalox Electric Baseboard heat runs cooler than any steam radiators — cooler than most hot water radiators. It's even heat — spread along the walls. No exposed electrical connections that children might touch.

CHROMALOX *Electric* BASEBOARD HEATERS . . . easy to install in a single room . . . or throughout the house!

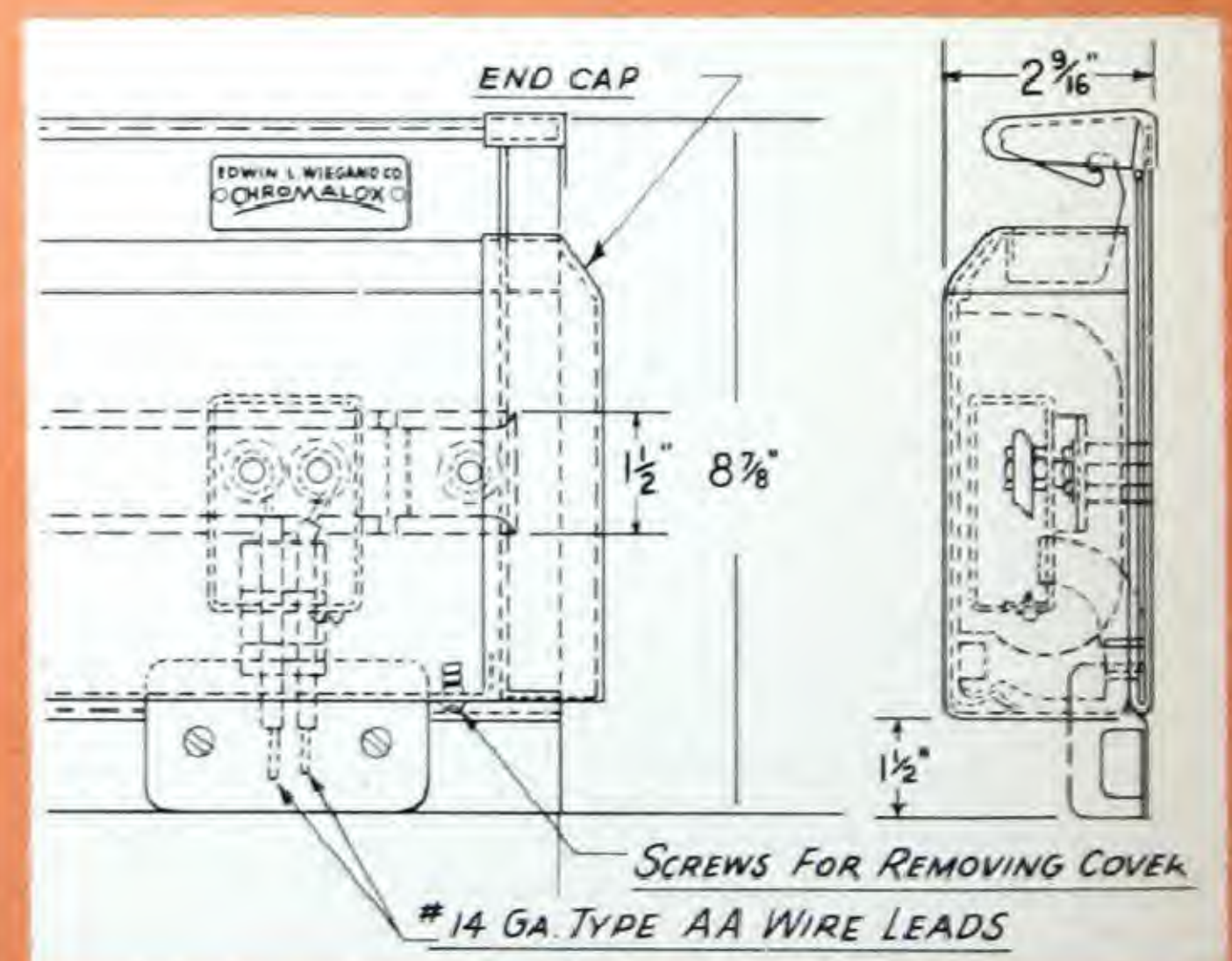


FOR AUXILIARY HEATING in those hard-to-heat rooms you can't beat Chromalox Electric Baseboard Heaters for ease of installation and downright efficiency! That bathroom of yours that feels like an icebox on cold mornings . . . a drafty bedroom . . . a chilly laundry or recreation room . . . all of them can be made comfortably warm and livable with the addition of electric baseboard heat. And you can do it so inexpensively without disturbing your present heating system . . . no duct work, no plumbing to worry about.

WHEN YOU ADD A ROOM to your home . . . put in a new powder room or bathroom . . . fix up your attic or basement for a recreation room — remember that Chromalox Electric Baseboard Heating can be installed quickly — even if walls are solid masonry. You don't have to rip up concrete floors or dig into papered or painted walls to install it. Just locate it right where it's needed — at the floor level. And you can control it at the flick of a switch or at the call of a thermostat.

Compact, serviceable design

The diagram below illustrates the compact design of the Chromalox Electric Baseboard Heater. Note that the overall height of the baseboard is $8\frac{7}{8}$ " and the end view shows a depth of only $2\frac{9}{16}$ ". Baseboard can be flush-mounted or recessed against studding as desired.



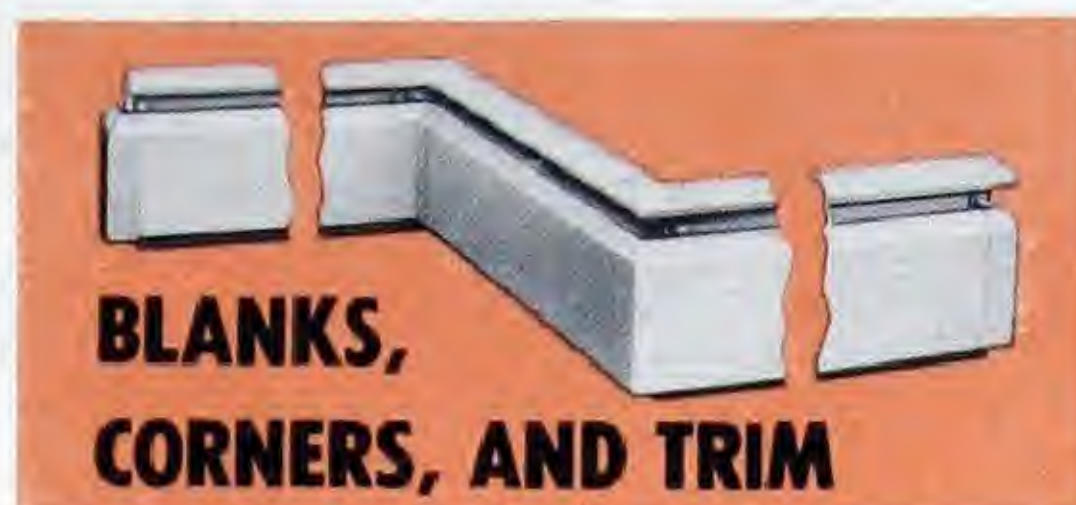
CHROMALOX HEATERS AND CONTROLS

designed for quick installation
... long, trouble-free service ...



With a combination of these three lengths, any wall can be fitted with Chromalox Baseboard Heating. For example, a 7-foot, 6-inch wall can be fitted wall-to-wall with 5-foot section joined to a 2-foot section, and 6-inch filler sawed from 2-foot blank panel.

Length	Power	Voltage
1 foot	100 watts	120 to 240
2 feet	300 watts	120 to 240
5 feet	800 watts	120 to 240



Matching blank panels (without heating elements) fill in the odd inches for continuous wall-to-wall coverage. Corners, both projected and inverted, carry baseboard heating around corners. Left or right end pieces and splice straps are available for joining heaters or blank sections into harmonious, unbroken installations.



THERMOSTATS

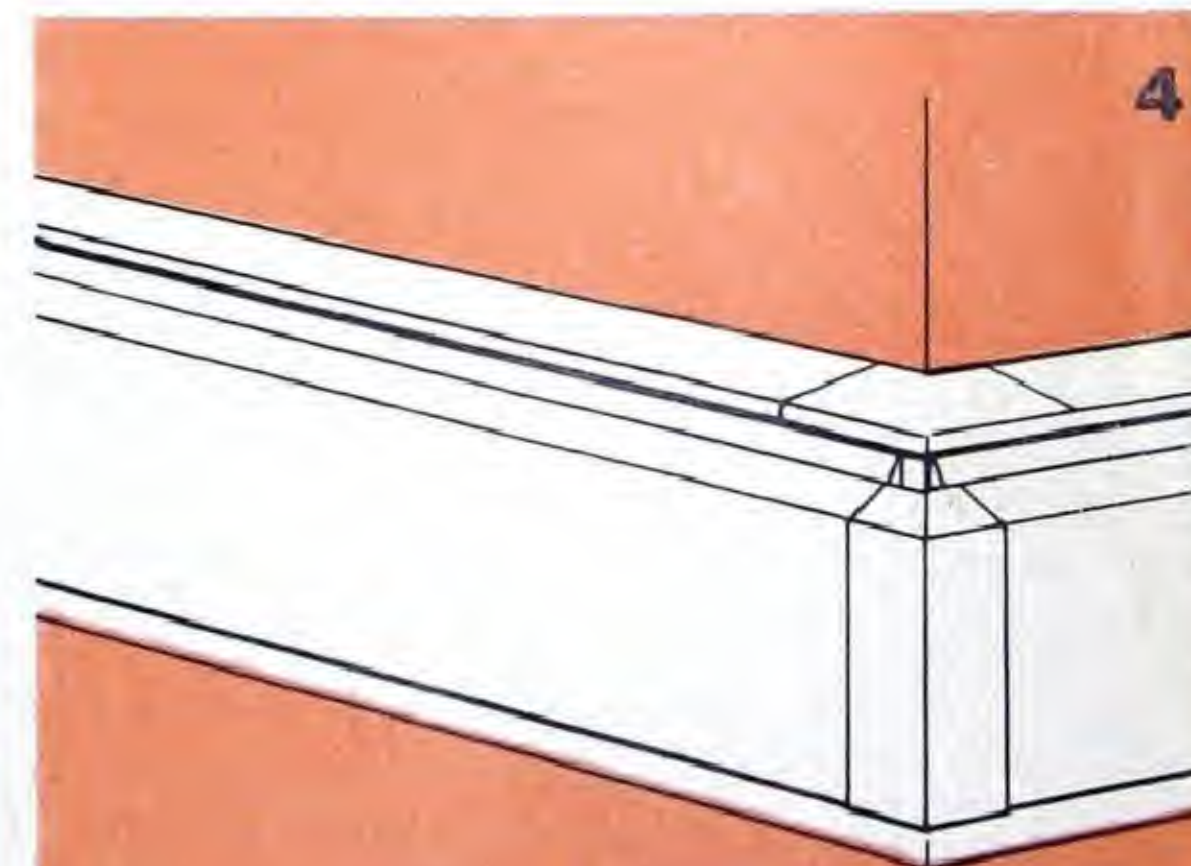
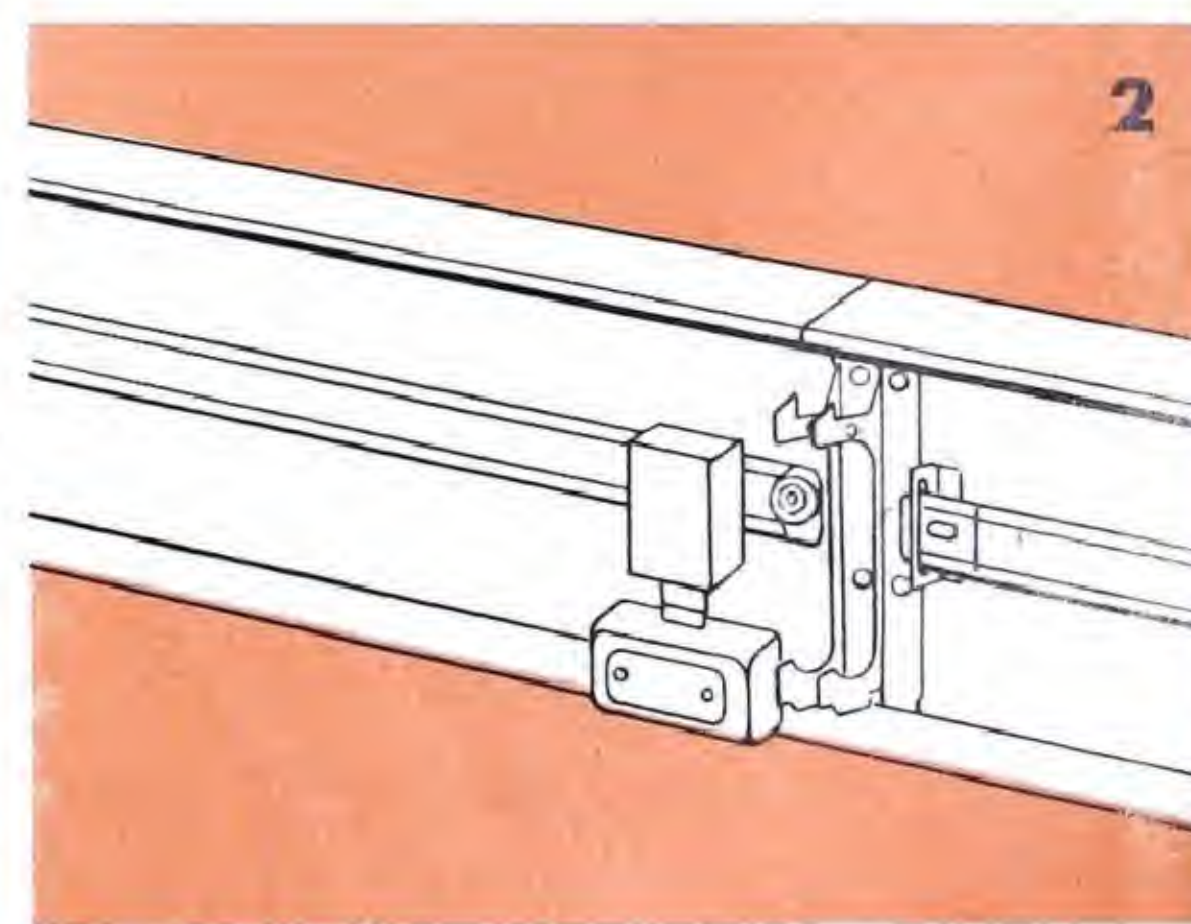
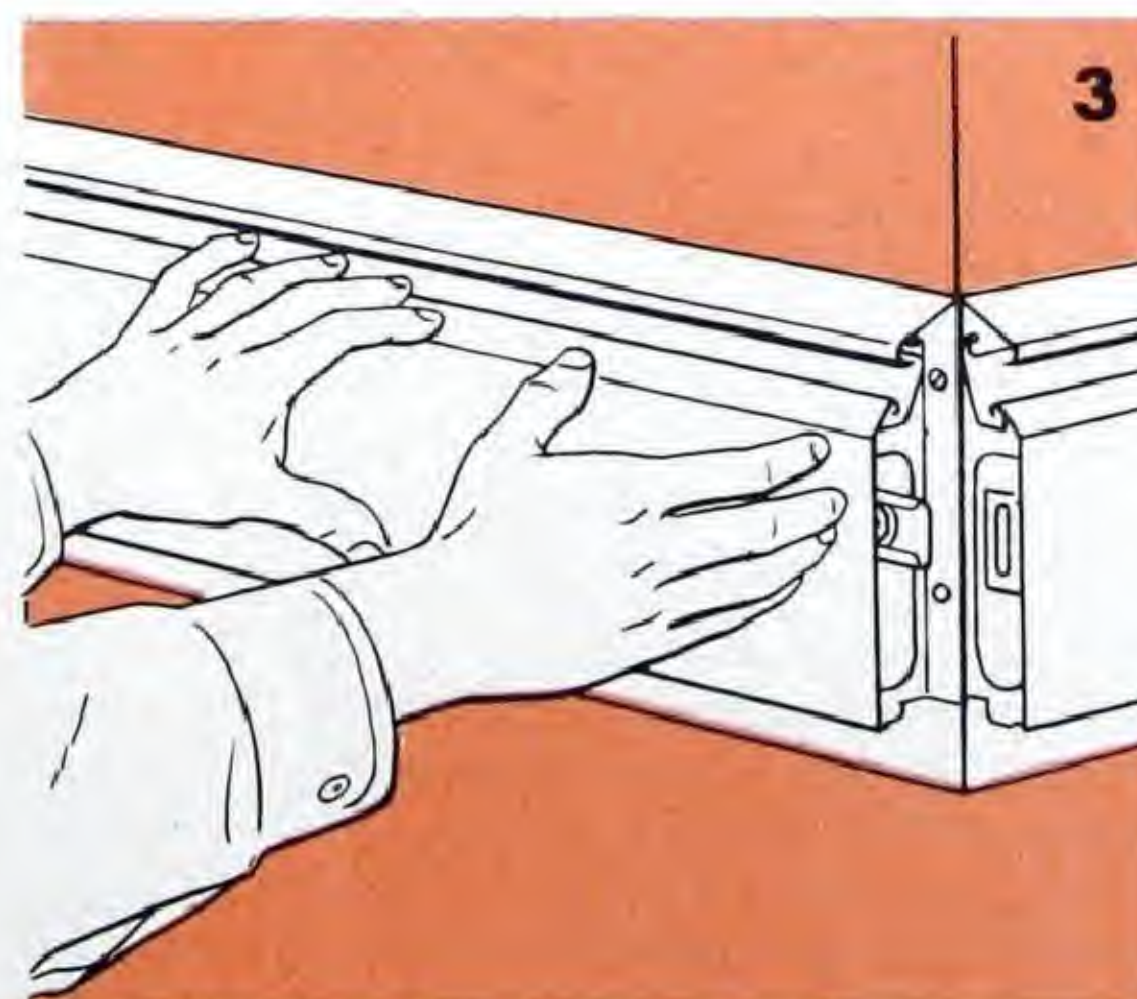
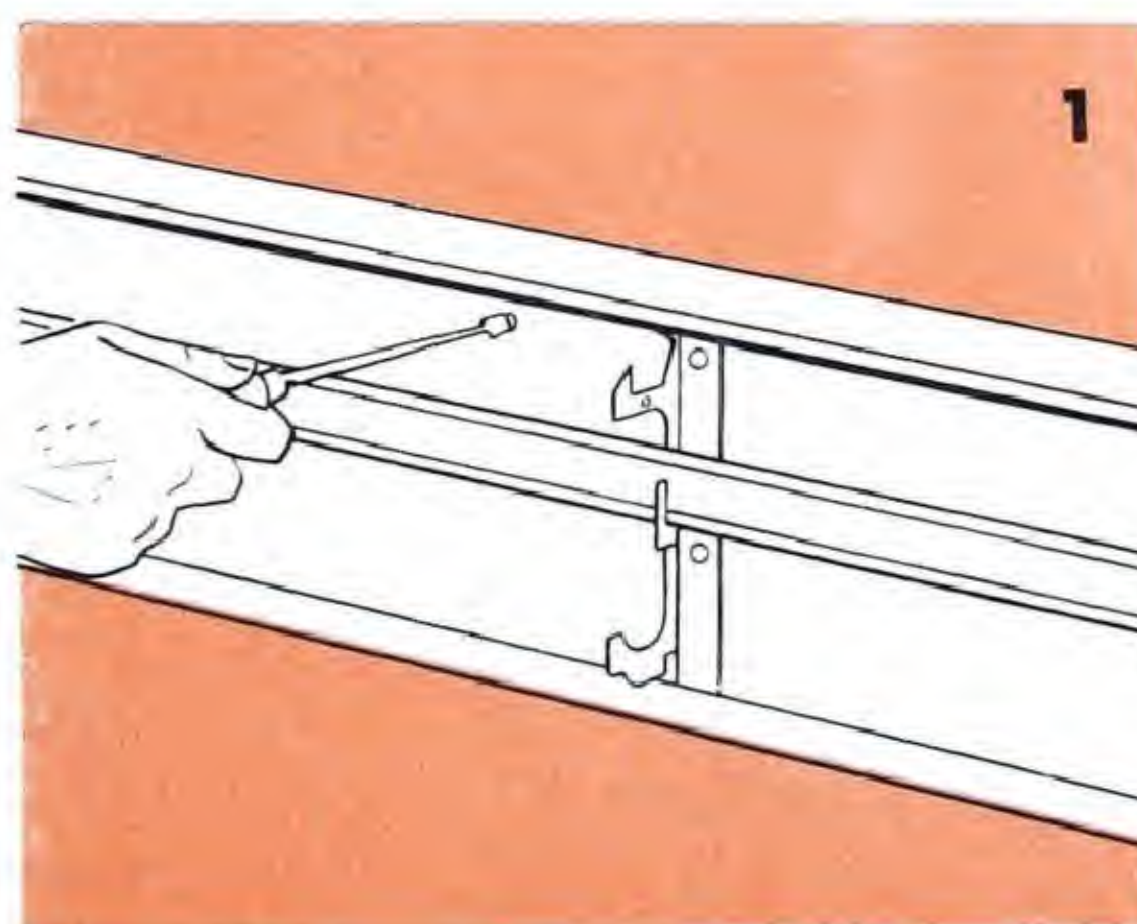
For living comfort a separate thermostat is recommended for each room. Line voltage thermostats are available, and low voltage thermostats are recommended. Two-stage control thermostats can be used to modulate any heaters in a room for closest comfort control.

HOW CHROMALOX ELECTRIC BASEBOARD HEATERS ARE INSTALLED

Your electrical or heating contractor is well qualified to install Chromalox Baseboard Heating systems in any type of building.

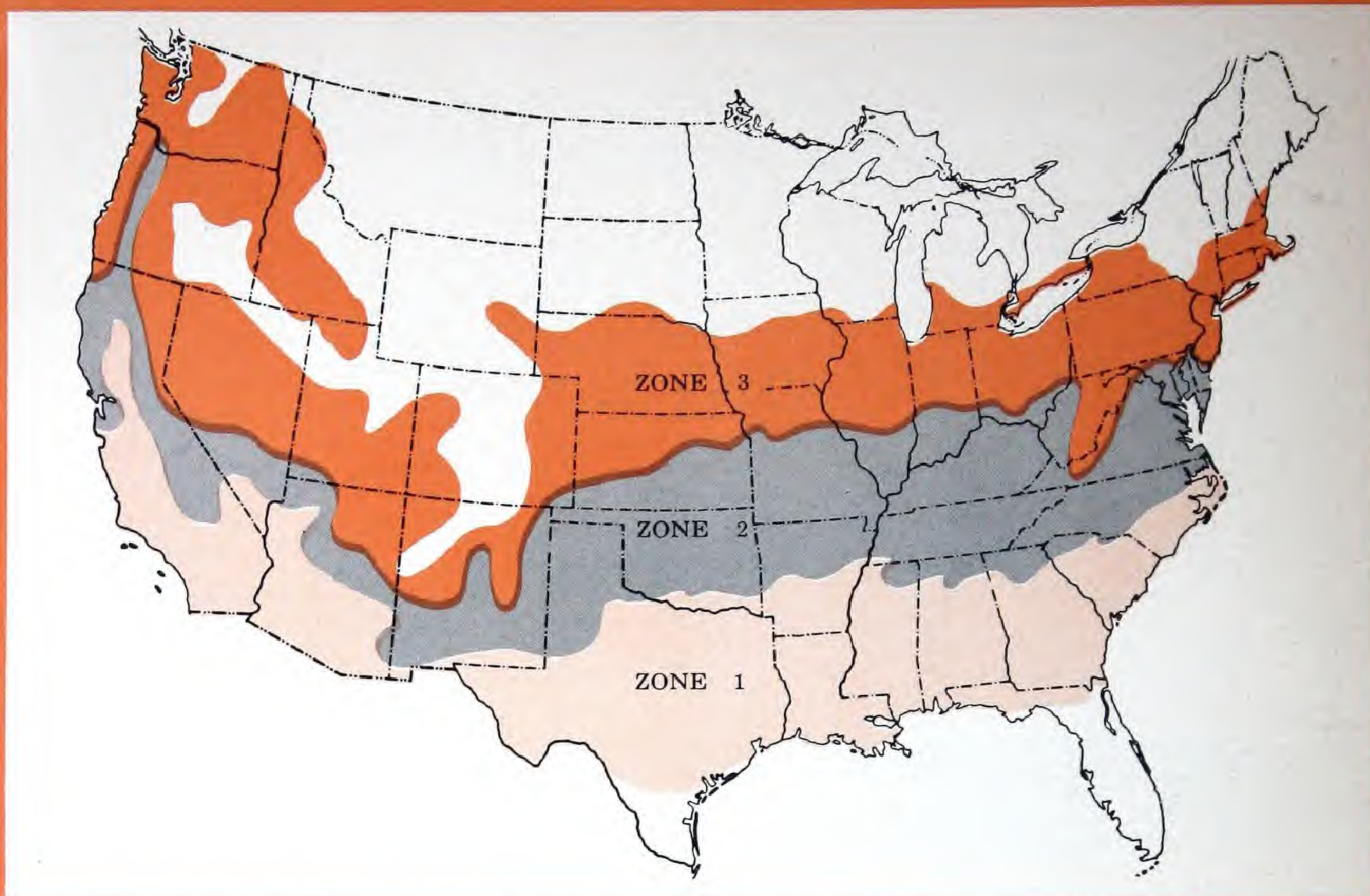
In new homes, Chromalox Baseboards can be installed according to plan, flush-mounted or semi-recessed. In modernizing older homes or installing Chromalox for auxiliary heating, the following steps are recommended:

1. After selecting the proper length units, back panels are screwed or nailed into studs. If recessed mounting against studs is desired, remove plaster to allow recessing.
2. 115 or 230 volt power supply is connected to UL approved splice box — bringing in two wires from rear, from bottom, or from sides using raceway.
3. Chromalox Baseboard Heater cover panel is snapped in place.
4. End caps, splicer plates, or corner pieces are snapped on where required. Finished panels are now ready for painting as desired.



Detailed Instructions Supplied with Heaters

How to estimate your CHROMALOX electric heating



Map of relative temperature zones in the United States



To estimate your home heating requirements

First, find your approximate location on the map above and note the numbered zone for your area. In general, areas having the same color have similar heating problems.

If you are located in the zones indicated by the numerals 1, 2, and 3, electric baseboard heating for the entire house is feasible. If you are located in the white areas, electric heating is considered suitable for auxiliary heating.

In zones 2 and 3, electric heating of the complete home is recommended only for well insulated structures.

The next step is to figure the volume of space to be heated, whether for the whole house or a single room. This is done by multiplying the room dimensions together to arrive at the number of cubic feet to be heated. For example, a room is 10 feet x 14 feet and 8 feet high . . . the cubic volume is $10 \times 14 \times 8$ or 1,120 cubic feet.

A typical home heating example

For illustration, suppose you want to heat your entire home . . . the cubic feet totals 8,000 and you live in the No. 2 area. By referring to the tables on the facing page, note that you would require 10.9 kilowatts of Baseboard Heaters; 12,380 kilowatt hours per heating season; and at $1\frac{1}{2}$ ¢ per KWH, your heating bill would be approximately \$185.00 for the season.

Other requirements can be estimated easily with the handy reference tables. Note that the data is based on the standards indicated in the footnote — and other conditions result in revised estimates.

Data in this bulletin are intended as guides to help you determine your heating requirements in any area you might want to heat. When planning an extensive installation, consult your heating engineer, your power company engineer, or the Chromalox application engineer serving you.

requirements . . . and approximate operating costs

Cubic Feet of Heated Space	Approx. KW Req'd			Approx. KWH Per Season			Approx. Operating Cost Per Season at 1½ ¢ per KWH		
	ZONES			ZONES			ZONES		
	1	2	3	1	2	3	1	2	3
500	.72	.92	1.0	532	818	1478	\$ 8	\$ 12	\$ 22
750	1.0	1.2	1.5	740	1362	2220	11	20	33
1000	1.3	1.7	1.9	960	1940	2810	14	29	41
1250	1.5	2.0	2.3	1109	2275	3400	16	34	51
1500	1.8	2.4	2.7	1330	2725	3990	20	40	59
1750	2.1	2.7	3.1	1548	3080	6590	23	46	69
2000	2.3	3.0	3.5	1700	3420	5180	25	51	77
2250	2.6	3.3	3.9	1920	3760	5780	28	57	86
2500	2.8	3.7	4.2	2070	4220	6200	31	63	93
2750	3.1	4.1	4.7	2290	4670	6950	33	70	104
3000	3.3	4.3	5.0	2440	4900	7410	35	74	114
3250	3.6	4.7	5.4	2660	5360	8000	40	80	119
3500	3.9	5.0	5.8	2880	5700	8560	43	85	128
3750	4.1	5.3	6.2	3030	6040	9170	45	90	137
4000	4.3	5.6	6.5	3180	6390	9600	47	96	143
5000	5.4	7.0	8.0	3990	7970	11820	61	119	177
6000	6.4	8.3	9.6	4730	9450	14200	70	144	212
7000	7.4	9.6	11.0	5470	10920	15900	82	163	238
8000	8.4	10.9	12.6	6210	12380	19400	92	185	291
9000	9.4	12.3	14.2	6940	14040	21090	104	210	316
10000	10.4	13.6	15.7	7700	15480	23250	115	232	348
11000	11.4	14.9	17.2	8420	16900	25500	126	253	382
12000	12.4	16.2	18.2	9150	18380	27000	137	275	405
13000	13.5	17.5	20.2	9980	19930	30000	149	298	449
14000	14.5	18.9	21.8	10720	21540	32200	161	323	484
15000	15.5	20.2	23.3	11470	22900	34400	172	345	515
16000	16.5	21.5	24.8	12150	24400	36750	179	367	550
17000	17.5	22.8	26.3	12940	26060	38850	194	391	582
18000	18.5	24.1	27.8	13690	27450	41200	205	412	617
19000	19.5	25.4	29.4	14410	28900	43500	216	434	651
20000	20.3	26.8	31.0	15170	30300	45800	227	455	685

The above data are based on typical conditions as follows:

1. Ceiling height: 8'0".
2. Insulation: 3½" — Bat type or equivalent.
3. Windows, doors: Weather-stripped, with storm sash.

4. Ceilings and floors: Fully insulated and exposed to outside design temperature.
5. Air changes per hour: One.
6. Window area: 15% of total area.

Q. Can Chromalox Baseboard Heating be used in any home regardless of the type of construction?

A. Definitely yes, Chromalox Baseboard Heaters are safe to use in frame, brick, steel or solid masonry construction — all you need is a supply of electricity.

Q. Do I need a 230-240 volt system coming into my home?

A. A 230-240 volt line is recommended in most instances due to the electrical load of other appliances such as washers, dryers, dishwashers, ironers, etc. . . . in addition to the Chromalox Baseboard Heater. 115-volt lines can be used, depending on total load. We suggest contacting your power company sales engineer.

Q. What about maintenance?

A. With no moving parts, no pipes, no flames, no filters, no radiators required, you can forget about maintenance costs or worries. Once installed, your Chromalox Baseboard Heater is good for years of carefree operation.

Q. What about costs?

A. Installation and material costs are beyond question the lowest of any comparable heating systems. Chromalox Electric Baseboard Heaters require no pipes, ducts, registers, radiators, furnaces or boilers. Because of their ease of installation, labor costs are low also. Operating costs vary with the cost of electricity in your area and with other factors mentioned above.

Q. Can I have my heat source where I want it?

A. Absolutely! You can locate your Chromalox Baseboard Heater wherever there's a wall and an electrical connection. You can add sections or remove them as you wish . . . move them where you need heat most.

Q. For real comfort, how are Baseboard Heaters superior?

A. It's estimated that 75% of America's homes are uncomfortable in winter. Forced hot air systems gush hot air into rooms and there is discomfort resulting from the stratification and fast air speed. Baseboard heaters produce gentle heat, spread out where it's needed at outside walls. It's instantly responsive to thermostat control. It radiates the warmth to you to keep you warm.

CHROMALOX

Electric Baseboard Heaters

**Manufactured exclusively by
Edwin L. Wiegand Company**

With each component part carefully designed by Chromalox engineers and manufactured by Chromalox skilled craftsmen, you can be sure the Chromalox Baseboard Heater you buy is of the highest quality.

And you can count on top performance, too, because Chromalox heating elements are tested thoroughly . . . wiring connections, junction boxes, and steel paneling carefully inspected before shipping.

All the know-how and experience gained in 38 years of manufacturing first-grade electrical equipment is utilized in the production of your Chromalox Baseboard Heater — and the reputation of Chromalox stands firmly behind each product.

WARRANTY — Chromalox Baseboard Heaters are warranted to be free of any defects in material or workmanship and completely suitable for the use recommended, when operated on rated voltage.

For free information on selecting, installing, and controlling Chromalox Baseboard Heaters, write for Bulletin 801.

CHROMALOX PARTS LIST

HEATERS				PARTS	
Cat. No.	Length	Volts	Watts		
BBH-110	1 foot	120 or 240	100	BB2B	2-foot Blank Section
BBH-230	2 feet	120 or 240	300	BBHS	Splice Plate
BBH-580	5 feet	120 or 240	800	BBLB	Left Hand End Cover
				BBRC	Right Hand End Cover
				BBOC	Outside Corner
				BBIC	Inside Corner

When Ordering Heaters, Specify Catalog Number, Voltage, and Quantity.

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